

**AMENDMENTS TO THE CLAIMS:**

The listing of claims will replace all prior versions, and listings of claims in the application:

**LISTING OF CLAIMS:**

1. (Currently Amended) A method for applying individualized calibrated tone-reproduction curves on a single page basis to enable printing of image data associated with a job having a plurality of pages, comprising:

(a) providing a plurality of calibrated tone-reproduction curves, each calibrated tone-reproduction curve corresponding to a distinct halftone type and media type;

(b) assigning a first media type to a first group of pages in the job;

(c) assigning a second media type to a second group of pages in the job;

(d) receiving a page of image data to be printed;

(e) determining a halftone type to be used in printing the image data;

(e)(f) selecting a calibrated tone-reproduction curve for the received page of image data based on the assigned media type and determined halftone type; and

(f)(g) applying the selected calibrated tone-reproduction curve to print the page of image data.

2. (Currently Amended) The method as claimed in claim 1, further comprising:

(g)(h) printing of image data on a xerographic printing device using the selected calibrated tone-reproduction curve.

3. (Canceled)

4. (Canceled)

5. (Currently Amended) The method as claimed in claim 1, further comprising:

(g)(h) performing a plurality of calibration operations, each calibration operation using a distinct media type and halftone type combination;

(h)(i) generating a tone-reproduction curve for each media type and halftone type combination;

(i)(j) storing the generated tone-reproduction curves; and

(j) ~~determining a halftone to be used in printing the image data;~~  
said (a) providing a plurality of stored calibrated tone-reproduction curves, each stored calibrated tone-reproduction curve corresponding to a distinct media type and halftone type combination;

~~said (e) selecting a calibrated tone reproduction curve based on the assigned media type and determined halftone type.~~

6. (Canceled)

7. (Currently Amended) The method as claimed in claim 1, further comprising:

(g)(h) performing a plurality of calibration operations, each calibration operation using a distinct media type and halftone type combination;

(h)(i) generating a tone-reproduction curve for each media type and halftone type combination calibration;

(i)(j) comparing the plurality of tone-reproduction curves to group tone-reproduction curves having similar characteristics;

(i)(k) selecting a single tone-reproduction curve from a group of tone-reproduction curves having similar characteristics, each single tone-reproduction curve being the tone-reproduction curve associated with the media type and halftone type combinations that generated the tone-reproduction curve having similar characteristics;

(i)(l) storing selected and non-grouped tone-reproduction curves; and

(i)(m) generating a map to link a stored tone-reproduction curve to a media type and halftone type combination, a stored tone-reproduction curve being capable of being mapped to more than one media type and halftone type combination; and

(i)(n) determining a halftone to be used in printing the image data;

said (a) providing a plurality of stored calibrated tone-reproduction curves, each stored calibrated tone-reproduction curve corresponding to a distinct media type and halftone type combination;

      said (e) ~~selecting a calibrated tone-reproduction curve based on the assigned media type and determined halftone type.~~

8. (Currently Amended) A system for applying individualized calibrated tone-reproduction curves on a single page basis to enable printing of image data associated with a job having a plurality of pages, comprising:

      a storage device to store and provide a plurality of calibrated tone-reproduction curves, each calibrated tone-reproduction curve corresponding to a distinct halftone type and media type;

      an input device to select a halftone type to be used in printing the image data and to assign a first media type to a first group of pages in the job and to assign a second media type to a second group of pages in the job;

      and a processor to receive a page of image data to be printed, to select a calibrated tone-reproduction curve for the received page of image data based on the assigned media type and selected halftone type, and to apply the selected calibrated tone-reproduction curve to print the page of image data.

9. (Original) The system as claimed in claim 8, further comprising:

      a xerographic printing device using the selected calibrated tone-reproduction curve to print images.

10. (Canceled)

11. (Canceled)

12. (Currently Amended) The system as claimed in claim 8, further comprising:

      calibration means for performing a plurality of calibration operations, each calibration operation using a distinct media type;

said calibration means generating a tone-reproduction curve for each media type; ~~said input device selecting a halftone to be used in printing the image data;~~

    said storage device storing the generated tone-reproduction curves and providing a plurality of stored calibrated tone-reproduction curves, each stored calibrated tone-reproduction curve corresponding to a distinct halftone type and media type combination;

    said processor selecting a calibrated tone-reproduction curve based on the assigned media type and selected halftone type.

13. (Canceled)

14. (Currently Amended)      The system as claimed in claim 8, further comprising:

    calibration means for performing a plurality of calibration operations, each calibration operation using a distinct media type and halftone type combination; said calibration means generating a tone-reproduction curve for each media type and halftone type combination calibration;

    said calibration means comparing the plurality of tone-reproduction curves to group tone-reproduction curves having similar characteristics;

    said calibration means selecting a single tone-reproduction curve from a group of tone-reproduction curves having similar characteristics, each single tone-reproduction curve being the tone-reproduction curve associated with the media type and halftone type combinations that generated the tone-reproduction curve having similar characteristics;

    said storage device storing both selected and non-grouped tone-reproduction curves; said calibration means generating a map to link a stored tone-reproduction curve to a media type and halftone type combination, a stored tone-reproduction curve being capable of being mapped to more than one media type and halftone type combination; and

~~said input device selecting a halftone to be used in printing the image data;~~  
    said storage device providing a plurality of stored calibrated tone-reproduction curves, each stored calibrated tone-reproduction curve corresponding to a distinct media type and halftone type combination;

said processor selecting a calibrated tone-reproduction curve based on the assigned media type and selected halftone type.

15. (Original) The system as claimed in claim 8, further comprising:  
    an auto-segmentation circuit to determine a halftone to be used in printing the image data; said storage device providing a plurality of calibrated tone-reproduction curves, each calibrated tone-reproduction curve corresponding to a distinct halftone type and media type combination; said processor selecting a calibrated tone-reproduction curve based on the assigned media type and determined halftone type.

16. (Original) The system as claimed in claim 8, further comprising:  
    calibration means for performing a plurality of calibration operations, each calibration operation using a distinct media type;  
    said calibration means generating a tone-reproduction curve for each media type; and an auto-segmentation circuit to determine a halftone to be used in printing the image data;  
    said storage device storing the generated the tone-reproduction curves and providing a plurality of stored calibrated tone-reproduction curves, each stored calibrated tone-reproduction curve corresponding to a distinct halftone type and media type combination;  
    said processor selecting a calibrated tone-reproduction curve based on the assigned media type and determined halftone type.

17. (Currently Amended) A method for applying individualized calibrated tone-reproduction curves on a single page basis to enable printing of image data associated with a job having a plurality of pages, comprising:

- (a) performing a plurality of calibration operations, each calibration operation using a distinct halftone type and media type;
- (b) generating a tone-reproduction curve for each media type and halftone type combination;
- (c) storing the generated the tone-reproduction curves;

- (d) assigning a first media type to a first group of pages in the job;
- (e) assigning a second media type to a second group of pages in the job;
- (f) receiving a page of image data to be printed;
- (g) determining a halftone type to be used in printing the image data;
- (g) (h) selecting a calibrated tone-reproduction curve for the received page of image data based on the assigned media type and selected halftone type; and
- (h) (i) applying the selected calibrated tone-reproduction curve to print the page of image data.

18. (Currently Amended) The method as claimed in claim 17, further comprising:

- (i) printing of image data on a xerographic printing device using the selected calibrated tone-reproduction curve.